



AfterSchool

'10 – '11 Edition



SA: AfterSchool – where kids can follow their curiosity after the school day is over. From LEGOS to photography to forensics, there is always something fascinating for kids to learn at Saturday Academy.

Give us a call and schedule a class, or simply go online and order. **Our classes come to you!**

503-200-5859 • www.saturdayacademy.org

Classes for Grades 1 – 8 • Follow Your Curiosity...®

SA: AfterSchool

Saturday Academy classes are for students who benefit from learning by doing. Our hands-on, inquiry-based classes are taught by professionals from the community in topics ranging from computer programming to forensic investigations. SA:AfterSchool classes come to you! Classes are conducted at existing neighborhood after school programs for students who attend those schools.

Cost

Classes cost \$115 per instructional hour. Some classes may have an additional materials fee. Please check catalog for details.

Class Duration	Price	Additional meetings (each)
1½ hours for 6 weeks	\$1035	\$172.50
1½ hours for 8 weeks	\$1380	\$172.50
2 hours for 6 weeks	\$1380	\$230

Classes are available for purchase by organizations including schools, foundations, PTA/PTO groups, community centers, parent groups, and even individuals. Occasionally, Saturday Academy receives grant funds to support these classes. These funds are usually restricted to Title 1 school sites.

Scheduling

Saturday Academy offers flexible scheduling to meet your after school program's time frame, however most classes run once a week for eight 1½ hour sessions. Classes will not meet on school closure days so check your school calendar for holidays, conferences, or teacher planning days before confirming dates. If a class is cancelled due to weather, we will do our best to reschedule, but cannot guarantee instructor availability for makeup classes. The school coordinator will be notified if a class needs to be cancelled for illness or emergency. It will be the coordinator's responsibility to notify the students. The instructor is responsible for making up classes cancelled due to illness or personal emergency.

The contracting organization is responsible for advertising the class and enrollment. Please use the grade level guidelines following the class descriptions. Classes must have a minimum of 5 students and a maximum of 10 for grades 1-3 and 12 for grades 4-8. Instructors need to bring adequate supplies so you must confirm the number of students. **Sites will be charged an additional \$50 per student over the maximum.** Allow at least 15 minutes prior to the class start time and following the end time in the classroom for teachers to set-up and clean-up. Instructors cannot supervise children during set-up and clean-up time. A site coordinator must be present in the building during the entire instructional time. Parents and classroom teachers are only admitted to the class with prior approval. Some classes have specific room requirements and all rooms should be equipped with a basic white/chalk board and enough tables/desks and chairs for each student.

It is advisable to schedule as early as possible since many instructors have limited availability during the after school time period. For middle school students, we suggest you consider scheduling a year round class like Actor's Studio, Stop Motion Animation, or Junk to Funk. Full year classes provide older students with a more comprehensive mentoring experience. To schedule a class, please contact Wendy Thompson at the Saturday Academy office. Email wendy@saturdayacademy.org, or call: 503-200-5859. You can also order classes on line by filling out the form at the following link: <http://tinyurl.com/SAAfterSchool>.



Contact Info

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Computer Technology

In the rare case that a school does not have the necessary technology for these classes, Saturday Academy may be able to provide a portable computer lab for its class use only. **The user fee for the portable lab is \$100 per course.**

Computer Graphic Art & Design

Design your own CD labels, greeting cards, stamps, book covers, or art posters. Using hi-tech drawing and design software, you will turn your ideas into graphically artistic designs. Work with a computer drawing tablet like an artist's paintbrush to control the computer's drawing and painting tools. Projects will combine computer technology with painting, coloring, and collage to create bold and beautiful new designs. Along the way you will gain important computer skills, learn design fundamentals, and develop art techniques.

Grades: 3-5 or 6-8 (PC Computer Lab with color printer required)

Create a Web Site

Combine your creative talents and technology skills as you learn the basics of web page design. Create your own five page web site in a Macintosh or PC environment. You will learn the basics of HTML, how to make images web ready in Photoshop and how to add video and sound to your web pages. Then create slide shows of your photographs in Flash and put them on your web site. The emphasis will be on original content, images, and multimedia enhancements.

Grades: 6-8 (Computer Lab Required)

Creating with Photoshop

Photoshop is powerful software that can be used to transform ordinary photos into extraordinary images. Whether you are a Photoshop beginner or digital graphics power user, you will learn the ins and outs of creating images with a computer as you build your digital portfolio. Learn how to blend images with layer masks, correct common photo flaws, change a photograph into a painting, or animate the image.

Grades: 4-6 or 6-8 (PC Computer Lab with color printer required)

Digital Nature Photography

Connect with nature and learn about photography. This course is an introduction to nature photography using digital cameras. Learn the basic controls on your digital camera and tips to enhance pictures using different functions such as ISO, aperture, and shutter speed. We will discuss composition, lighting, and perspective and learn how to best capture an image regardless of the lighting or weather conditions. In addition to improving your camera skills, you will also learn how to save, edit, and print your photographs. At the end of the course, you'll be presented with finished prints of your favorite images. School or students must provide cameras.

Grades: 3-5 or 6-8 Additional Materials Fee: \$25 (Computer lab with color printer)



“I am proud my robot didn’t fall! The hardest part about this class was going home.”

Ashley, grade 5
James John Elementary School

Computer Technology

Electronic Music Making

Learn to create music with FL Studio, a powerful and flexible computer program that lets you build any music you can imagine note by note. You'll learn how to make a beat, how to craft harmony, and how to build interest that hooks listeners into your song. You'll experiment with sampling, mixing and equalizing. Since you are building your music note by note, you'll learn music theory as well. Finish with an online release of your musical creation. Musical experience will be helpful but is not required.

Grades: 6-8 Additional Materials Fee: \$25 (Computer lab required)

Flash Adventures

Bring your ideas to life with action, sound and special effects! Using Adobe Flash in a computer lab, you will create your own animated cartoon clips. You can make silly or serious animated cartoons and even create animated greeting cards for your family and friends. Whatever you dream up, you will have great fun creating it with Flash!

Grades: 3-5 or 6-8 (PC Computer Lab)



Game Maker

Create a video game using Game Maker technology. Learn how to design and modify your own exciting PC game by studying examples from Game Maker and analyzing the codes used. Look at games like Pong to learn to control characters, objects, and outcomes in your game. Then increase the difficulty level and add more features. If you have always wanted to design a speed racing game or a version of PacMan, Mario, or Dragon Drop, this class will provide the techniques you need.

Grades: 4-6 or 6-8 (PC Computer Lab required)

Robo Pets

Design and construct a robotic animal and program it to act like the real thing. You will build your Robo Pet using the Lego Mindstorm system. Make full use of light, rotation, and touch sensors to gather data and program robots. How fast can it move? Does your Robo Pet like the dark? Does it like to be petted? What happens when you pull its tail? Learn about computer programming and build a pet you never have to feed.

Grades: 5-8 (PC Computer Lab Required)

Robotic Engineering

Build and control Lego Mindstorm robots. Use computer programming basics, touch, light, rotation, and temperature sensors to gather data and program robots. Your robots will be able to navigate a map, transport materials, communicate with each other and even play a rousing game of "Capture the Flag."

Grades: 3-5 or 6-8 (PC Computer Lab Required)

Stop Motion Animation

In Stop Motion Animation class you will sculpt a 3D pose-able puppet, paint backdrops, create scenery, and develop and shoot a short story animation sequence with your puppet as the star. Add a soundtrack to top it all off. Technical video and computer animation skills will be expanded through the use of the Stop Motion Animation program Dragon or i-Movie.

Grades: 4-6 or 6-8 Additional Materials Fee: \$50 (Room with sink and no carpet preferred)

Whiz Kids: Computer Basics

Develop computer skills in beginning drawing and word processing programs. Learn keyboarding, how to find and use Clipart, and some basic internet skills. Spiff up your school reports, make cards for your friends, and learn computer research skills.

Grades: 1-3 (Computer Lab Required)

Instructors

Theresa Alexander

Erin Berzel

Lindsey Dotson

Barbara Fujino-Lemon

Richard Harris

Diana Mati

Jim Mattingly

Ashley Neese

Edwin Pilobello

Michelle Samuel

Dia Varano

Jim Zaleski

Science & Engineering

Aeronautics

What makes an airplane stay in the sky? Learn about the principals of flight and how airplanes are engineered. Explore the properties of air, flight, and aviation through hands-on activities, including investigating the geometry of kites, experimenting with rotary wings, modeling Bernoulli's principal of air flow, and making a flight plan. You will see how aeronautical engineers shape the airplane, its wing and tail so that it can lift itself off the ground and fly easily through the air. Then you will experiment with your own designs.

Grades: 3-6 Additional Materials Fee: \$25

Astronomy: Super Stars

Take a quick tour of our solar system then on to the stars! This cosmic adventure starts with our own sun. Travel to planets and moons and explore their unique landscapes. Fly past the Oort Cloud and head toward Proxima Centauri, the next closest star. Tour blue stars, giant reds, brown dwarfs, and nebulae. During the journey you will make your own spectroscope, sun clock, and telescope to aid in your investigations.

Grades: 1-3 or 4-6 Additional Materials Fee: \$25

Biodiversity: Life at the Extreme

Explore the amazing variety of life on earth through dissection, experiments, and scientific drawings. We will grow microbial colonies and investigate a drop of pond water under the microscope. Continuing through fungi and molds, examine the similarities and differences between these bizarre groups, and then make toaster mushroom and cheese pizza, impossible without these remarkable kingdoms.

Grades: 4-6 or 6-8 (Classroom with a sink) Additional Materials Fee: \$50

Bones

We will explore similarities and differences between the bones and skeletons of many animals, and find out just how similar to a whale or a rabbit we really are! Bones and skeletons are both fascinating and mysterious. In this series of experiences, you will examine unusual bones and learn to make inferences about them based on observations and previous knowledge. You will study the structure and function of your own bones and teeth then compare them to the skeletons of other animals. By the end of the class, you will better understand the relationship of an animal's skeleton to its environment. Finally, you will construct a model of an animal skeleton.

Grades 4-5 Sessions: 7-8

Bugs, Bugs, Bugs: Entomology, the Study of Insects

Explore the insect world through hands-on projects, presentations, videos, and field trips. You will learn the basic biology of insects as well as identification skills while you investigate the characteristics and environments of our creepy crawly companions.

Grades: 3-6



“Forensics is a fun class and you learn a lot.”

**Maddy, grade 5
Arleta Elementary School**

Science & Engineering

Chemistry Kitchen

Turn your refrigerator into a laboratory as you use household products to investigate elements and compounds. Experiment with chromatography to separate inks, cabbage juice to determine if a substance is acidic or basic, and instruments to accurately measure solids and liquids. Explore the world of atoms, bonds, solutions, and phases as you build your own molecule. Learn to think like a chemist as you analyze your findings.

Grades: 3-5 (Classroom with a sink) Additional Materials Fee: \$25

Chemistry Experiments

Conduct fascinating experiments as you learn about elements, compounds, atoms, molecules, chemical bonds, and states of matter. Experiment with mixtures and identify unknown ingredients by their properties and reactions. Explore acid/base reactions and experiment with color, energy, and changes in matter.

Grades: 6-8 (Classroom with a sink) Additional Materials Fee: \$25

Cool Wheels

Discover firsthand how engineering principles work as you design, build and race a CO₂-powered race car. How fast will your car travel? The answer will depend on your design and ingenuity; the more aerodynamic the design, the faster the speed. Begin your undertaking by creating a plan using designer software. Next, construct your vehicle out of balsa wood and finish it with a custom paint job. When complete, your car must meet weight and design specifications. Clock your amazing speeds using a digital timer, analyze the data, and fine-tune your design to increase your car's speed. (Combine this with Rocket Science for a full term class).

Grades: 6-8 Additional Materials Fee: \$50

Creative Engineering

Did you ever have a really great idea for a toy, a tool, a vehicle, or some other invention? Explore the creative thinking and problem solving techniques needed to bring your ingenious ideas to reality. Identify specific problems or needs that could be solved by your inventions. Brainstorm innovative solutions and learn about basic engineering at the same time.

Grades: 3-5 or 6-8

Explorations in Electronics

Investigate electronics in this hands-on introductory class. Experiment with basic electronic components using circuits, capacitors, and by building a simple radio transmitter. Learn to solder as you build circuits for an electronic siren and a flashing LED robot! You'll explore electronics in your everyday world with a take-home digital multimeter to measure voltage, current, and resistance. In all of these activities you will develop your troubleshooting ability, one of the most important tricks of the trade for any future electronics engineer.

Grades: 5-8 Additional Materials Fee: \$25



Instructors

Theresa Alexander

Annie Corbett

Lindsey Dotson

Richard Duncan

Stephanie English

Tom Giese

Candace Gossen

Scott Hayes

Soenke Hollstein

Scott Isler

Eileen Kane

Patrick Lind

Jeannie London

Ryan McKenna

Dawn Nilson

Amber Roesler

Martha Royster

Emily Shields

Veronica Zonick

Forensic Science: Who Done It Crime Solving

A mysterious crime, an unidentified victim and no suspects – but wait! Whose footprint is this? Could that piece of fabric be a clue? Learn the scientific techniques used to investigate crimes. You will examine a mock crime scene for clues on how the crime was committed and learn ways to identify the victim and possible suspects. Analyze blood spatters, collect samples for examination and chemical analysis, explore the intricacies of fingerprinting, and be introduced to the science of genetics and DNA forensics. Use the scientific method and deductive reasoning to evaluate motive and opportunity and then, in teams, ultimately solve the crime.

Grades: 3-5 or 6-8 (Classroom with a sink) Additional Materials Fee: \$25

Science & Engineering

Hey, There's Fungus Among Us!

In this class you will explore the amazing variety of life on earth through observations, experiments, and dissection. Investigations will cover bacteria, protists, the animal kingdom, parasites, and other bizarre life forms, fungi, and plants. Discover what leads to such biodiversity and the inter connectedness of life on earth.

Grades: 3-5 or 6-8 (Classroom with a sink)

Lego Physics: Introduction

Become an expert Lego builder as you learn the principles of physics and engineering. Explore concepts such as balance and symmetry, acceleration and inertia, and shape and strength as you construct your Lego project. You will build bridges and other devices using gears and motors to add movement. Learn how simple machines like levers, pulleys, and gears are used in everyday life and in your Lego projects.

Grades: 2-5

Lego Physics Level I: Gears & Cams

How tall can a tower rise? How far can a bridge span? Can you build a tower three times taller by using three times the amount of materials? Find out the answers to these questions as you discover how physics principles are put to practical use. Using Lego building components, you will investigate structural designs and employ gears, cams, and pendulums to explore kinetics and store energy.

Grades: 3-6

Lego Physics Level II: Motors & Movement:

Learn more about gears and stored energy by putting the principles of physics to work. With the addition of electric motors, you will build and improve a motorized crane, a "Tug-Bot," and steerable car. You will investigate the fundamentals of robotic development while constructing and operating Lego components. Finally, you will use acceleration, velocity, and electric motors to create truly sophisticated projects. In this advanced class you can choose a project of your own or work on challenges suggested by the instructor.

Grades: 3-5 or 6-8

Marine Biology

This class explores the behavior and biology of marine animals through a variety of activities which include dissecting a squid and a close examination of intertidal invertebrates to study their anatomy and physiology. You will examine preserved specimens of animals found in tidal pools and be able to identify them the next time you go to the coast. In-class activities will teach you about the behavior and biology of whales and other marine mammals.

Grades: 4-6 or 6-8 (Classroom with a sink, DVD/VCR/TV)

Additional Materials Fee: \$25



**"Marine Biology is
now my favorite
subject!"**

Travis, grade 4

Lynch View Elementary School

Science & Engineering

Microbiology

Investigate the invisible world of microorganisms in this introduction to microbiology. You will look at the diversity of bacteria and how it occurs. Then learn to identify the different forms of microorganisms by observing colonies under a microscope and by staining techniques. Grow your own culture from milk and count and identify the bacterial communities within. Use your scientific skills to conduct experiments to test the effects of various disinfectants on bacterial growth.

Grades: 4-6 or 6-8 (Classroom with a sink)
Additional Materials Fee: \$50

Robots in Science Class

Hire a robot as a lab assistant. Using Vernier sensors and Lego Mindstorm robots, you will learn the latest in lab technology as you conduct a variety of inquiry-based science labs. The class begins with measuring temperature through evaporation while being introduced to scientific process and robotic skills. You will build and program the robots to carry out data collection and automation. Then use the data logging capability to graph and analyze your data. Further experiments could be conducted in acid rain, soil testing, water quality, and UV lighting.

Grades: 6-8 (Benchmark 8th)

Rocket Science

Turn your soda cans into Pop Can Hero Engines and liter-size bottles into Pop Bottle Rockets. Learn how rocket fuel can be improved by conducting antacid tablet races. Build a balloon powered rocket car or paper rockets with drinking straw propulsion. Discover the history of rocketry as well as some of the basic principles like Newton's Third Law of Motion in this exciting and explosive class. (Combine with Cool Wheels for a full term class)

Grades: 3-5 or 6-8 Additional Materials Fee: \$25

Solar Power

Harness the sun's energy to fuel your own solar project. Explore the science and principles of renewable energy. Draw sun diagrams, solar profiles, and then construct projects such as solar cookers, 3D sun path models, and toy cars. Learn how to utilize the energy from the sun to power your projects.

Grades 4-6 or 6-8 Additional Materials Fee: \$25

Switched On To Electricity

Volts! Coulombs! Amperes! In this class you can wave your handmade magic wand and mysteriously turn on a light bulb. Learn the difference in current between a round and long light bulb. Discover why spiral light bulbs are better for the environment. Get a charge out of the inner workings of batteries and learn the right hand rule of generators. Get wired up for a great time.

Grades: 2-5 or 6-8 Additional Materials Fee: \$25

Wacky Weird World of Science

From the most bizarre to the most fascinating, explore the mysteries of our universe through science. Conduct hair-raising experiments with electricity and discover the three laws of motion in action through stomp rockets and air cannons. You will explore the chemistry of freaky, creepy dry ice and find out what's up with the parasitic tapeworm and its totally gross relationship to its host. Don't miss these amazing adventures in science!

Grades: 1-3 (Room with sink required)
Additional Materials Fee: \$25

World's Greatest Inventions

From the wheels to the computer, you will learn how creative thinkers made ground breaking products, and how early inventions like transistors laid the groundwork for modern technology like laptops and iPods. You will investigate how money and even the number zero were invented. As you dive into the thinking behind these inventions, you will learn about design, engineering, and the evolution of modern science.

Grades: 3-5 or 6-8



Math

Advanced Algebra Challenge

Challenge your math skills! Explore the applications of algebra through the concept of mathematical models. As you apply your algebra skills to real-world problems and experiments, you will expand your appreciation for math and improve your grasp of the concepts involved. Algebra topics that will be used in your applications include slope, linear equations and inequalities, direct and inverse variation, graphing functions, quadratic equations, exponents, and growth and decay.

Grades: 6-8

Cryptography: Making and Breaking Secret Codes

Creating secret codes, decoding encrypted messages, and understanding why it is safe to type a password on the Internet are all elements of cryptography: the study of making and breaking codes. In this class you will learn about shift ciphers, the Vigenere cipher, and the Enigma machine. You will also learn about the history of cryptography from the days of Julius Caesar to World War II. Through exciting hands-on projects you will put your problem solving skills to work to crack codes and create your own.

Grades: 3-5 or 6-8

Fun with Fibonacci

Find the hidden order behind pine cones, sea shells, tree branches, rabbits, and the Egyptian Pyramids encapsulated in a single number. Through investigations into statistics, Platonic solids, bee genealogy, plant growth, and architecture, you will discover ways to generate and uncover Fibonacci numbers. Next you will delve into the fascinating and beautiful world of Penrose tilings, creating some unique and gorgeous works of art with mathematical meaning.

Grades: 4-6 or 6-8

Geometry From Around the World

Explore math through the lens of history and world cultures. Using mathematical tools, create models and plans for Greek buildings, the Egyptian Pyramids, Islamic Art, the Great Wall of China, and Native American designs. Learn Euclidean geometry and basic geometric constructs such as lines, points, angles, and shapes through hands-on activities. This is an advanced class for the math curious.

Grades: 6-8

Math & Architecture: Greek Origins

Travel back in time to ancient Greece when mathematics, art, and architecture combined to create buildings of lasting splendor. Employing a compass and straight edge, you will create plans for columns using the ancient Greek Orders of Architecture. Mathematical investigations will include some of Euclid's most fascinating geometrical theorems and proofs. As you immerse yourself in Greek culture, you will explore Greek design patterns and use them to decorate your columns with interlocking circles, waves, spirals, and the ever popular egg and dart patterns that symbolize the beginning and end of life.

Grades: 4-5 or 6-8 Additional Materials Fee: \$25



Instructors

Mary Carroll
Lindsey Dotson
Soenke Hollstein
Barbara Kerr
Jim Mattingly
Luke Renner
Martha Royster
James Vautravers
Joe Wasserman

Math

Math Artistry

Use your imagination and creativity in a variety of artistic activities as you learn and apply math concepts such as symmetry, fractions, decimals, number patterns, and measurement. Projects could include making a class quilt or designing and painting tiles.

Grades: 1-3 or 4-6 Additional Materials Fee: \$25

Math Trek

Challenge your thinking and problem solving skills in this exploration of number systems from around the world. Learn to use a Chinese abacus and Napier Rods for addition, subtraction and multiplication. Explore ancient Mayan, Hindu, and Babylonian numbers to design your own codes.

Grades: 2-3



Money \$ Math

Instead of learning equations and graphs, you will engage with simulations of economic mechanisms. Supply-and-demand will affect your production and profits as you struggle to maximize your financial gains. Working in pairs, you will play a variety of board games, like Settlers of Catan, Modern Art, Tinnerns' Trail, and Stone Age, featuring various economic mechanisms, starting with simpler games and advancing to the more complex. You will learn to manage scarce resources, experience first-hand the importance of capital investment and development, and alter your plans as supply and demand fluctuates.

Grades: 6-8

Puzzles and Games for Math Lovers

Challenge yourself with the vast world of puzzles that make math fascinating. Stretch your thought processes with riddles, logic problems, Japanese Nanograms, mazes, and math games. In hands-on explorations into geometry you will create Pascal's triangle, Pythagora's wild triples, and build structures out of paper plates, including a grand tower of tetrahedron and the hexa-flexagon.

Grades: 1-3, 4-5, 6-8

Arts & Humanities

Acting: Folk Tale Plays from Around the World

Learn the basics of acting and staging a play by adapting a folktale, myth, or trickster tale to the stage. After investigating the culture from which the tale originated, we will use our knowledge to create authentic characters, props, and of course talking animals. Our final production will be presented to an audience.

Grades: 3-5 or 6-8 (Larger, open classroom or gym required)

Actor's Studio

In an action-packed and non-threatening atmosphere, you will use improvisation and theater games to build characters, complete scene analysis, and perform in a scene. This class will help you gain confidence for auditioning by practicing a cold-reading and other acting skills. Possible field trip to a professional production could be included.

Grades: 6-8 (Larger, open classroom required)

Art & Humanities

African Dance and Drumming

Learn the basic techniques of Ghanaian drumming by listening to and imitating rhythm sequences. Discover the relationship between the dancer and the drummer. While you practice traditional dance steps, you will also be exposed to the Ghanaian culture.

Grades: 1-3, 3-5, 6-8 (Larger, open classroom or gym required); Additional Drum Rental Fee: \$100

Animal Sculpture

Love working with clay? Want to work on a larger scale? In this class you will create 2-3, realistic animal sculptures. Learn animal anatomy along with handbuilding, coiling, and draping clay techniques. The sculptures will be glazed and bisque fired and will be able to be displayed inside or out.

Grades: 1-3, 4-6, 6-8 Additional Materials Fee: \$50 (Room with sink, no carpet, and kiln access required)

Architectural Drawing & Modeling

Using the architectural tools of mathematics and art, you will create renderings of houses, buildings, or even skate parks. You will be introduced to different architectural styles and the elements that distinguish them. As you draw, you will learn the mathematical and artistic skills behind the art of perspective drawing and drawing in three dimensions. Use foam core to build a model of your dream home or school.

Grades: 4-5 or 6-8 Additional Materials Fee: \$30

Clay & Sculpture

Learn basic coil, pinch, slab, and extruded methods of hand-building with clay. Draping clay techniques are used to create realistic animal sculptures, clay masks, or Aztec sculptures. This class will explore world civilizations through various vessels from Ancient Greece to US Civil War face jugs. You will work with a variety of air dried and kiln fired clay.

Grades: 3-5 or 6-8 Additional Materials Fee: \$50 (Room with sink, no carpet, kiln access preferred)

Comic Books and Graphic Novels

Learn the basic techniques of graphic storytelling from storyboarding to penciling to inking. Develop your drawing skills with a focus on composition, expression, and lettering and explore various inking techniques using pens and brushes. By the end of the class, you will create a short graphic story to be self-published.

Grades: 4-6 or 6-8 Additional Materials Fee: \$25

Creating an Illustrated Storybook

Become a published author. After learning the elements of story writing: character, dialogue, setting, plot, and action, you will write and edit group and/or individual stories. Different art media such as oil pastel, water color, or colored pencil will be used to create illustrations to accompany your story. The stories can then be bound through a variety of techniques to create a one-of-a-kind, hand-made storybook. Group books are donated to the school library and individual books are taken home to share with friends and family.

Grades: 1-3, 4-6, 6-8 Additional Materials Fee: \$40

Instructors

Alex Addy
Claudia Baskind
Addie Boswell
Nancy Coffelt
Carolyn Conahan
Randi Douglas
Wendy Dunder
Tony Fuemmeler
Debra Galaty
Subashini Ganesan
Caren Graham
Erinn Hatter
Carolyn Haycraft
Liz Hibbard
Eileen Kane
Kimberly Kent
Amy Konsterlie
Jackie Kramer-Arden
Rachel Lidskog
Tracy Mandel
Susan Mangin
Noah Martin
Rosanne Parry
Donna Prinzmetal
Luke Renner
Michelle Samuel
Catherine Schaper
Andrea Schwartz-Feit
Maria Simon
Wendy Thompson
Dia Varano
Joe Wasserman

Art & Humanities

Fiction Writing

Find your own writing style while exploring the basics of fiction. Learn techniques to captivate your readers, methods of storytelling and ways to develop realistic and memorable characters. Practice weaving carefully crafted sentences into a work of lasting impression. Through in-class exercises, such as writing “flash” fiction, you will learn to write stories that will engage and satisfy both author and reader.

Grades: 3-5 or 6-8

Games in World History

Instead of memorizing events, names, and dates, you will actively control nation-states, important historical figures, and civilizations. Play a number of board games that simulate particular historical periods. Working in pairs or small teams, you will create and implement your own long-term strategies, negotiate deals, and maneuver toward victory. Explore the constraints on and motivations of historical actors, the details of different time periods, and what might have happened had different decisions been made.

Grades: 6-8 Additional Materials Fee: \$25

Garbage to Art: Reuse, Recycle, Invent

Save the Earth and make art at the same time. In this class, we will scour our surroundings to find good, discarded “junk” that we can turn into 2D and 3D art. All the stuff we scrounge will be organized with other art materials and found objects to create individual and group works of art for you to take home or donate to your school.

Grades: 6-8 Additional Materials Fee: \$25 (Room with sink and storage space ideal)

Glass Art and Jewelry Making

In this exciting class you will create multiple fused glass projects including glass jewelry, sun-catchers, night lights, paper weights, and an 8 inch square plate. Basic glass cutting techniques will be taught as well as many fusing techniques. Learn the science behind this “super cooled liquid” material, and what makes the vast array of colors available for use. You will learn how to create chemical reactions between different colors used in your art work and how heating and cooling of the glass affects the final result.

Grades: 3-5 or 6-8 Additional Materials Fee: \$100 (Room with sink and no carpet required)

Globe Trotters

Pack only your imagination for this guided tour of the world. Through storytelling, map reading, and multimedia art projects, you will explore the cultures of different regions around the world. Interdisciplinary projects may include Indonesian Wayang Kulit shadow puppets, Mexican piñatas, and decorative, Australian boomerangs. Learn about a variety of cultures, traditions, and geography while you create crafts from around the world.

Grades: 2-3, 4-6, 6-8 Additional Materials Fee: \$25

Go Fly a Kite

Apply your math skills of measurement and calculation to build artistic kites that really fly. Learn how kites work, what shapes are most desirable, and why kites need tails and strings. Explore the elements of color and design to decorate your kite so that it looks as good in the sky as it does on your bedroom wall. Build a wind measuring tool and finally test fly your kite.

Grades: 2-3, 4-6, 6-8 Additional Materials Fee: \$45



Junk to Funk: Trashion Beyond the Runway

Transform reused and recycled materials into real fashion accessories and couture fashion. Create trashion garments and take-home usable fashion accessories created from materials found at SCRAP. You will not only learn about fashion design, but also the impact of consumerism on our environment. This class culminates in a fashion show for friends and family. Save the Earth and look good doing it.

Grades: 6-8 Additional Materials Fee: \$25

Masks From Around the World

Create your own beautiful masks out of papier-mâché, watercolor paper, paint, and other materials. Develop your artistic design skills in drawing, painting, and sculpting while learning about the myths and traditions behind the masks. Your inspiration may be from Japanese theater, Native American or African culture, or even Mardi Gras. Although a mask can hide a face, it often reveals a great deal about its wearer. What will your mask reveal about you?

Grades: 2-3, 4-6, 6-8 Additional Materials Fee: \$50 (Room with a sink required)

Art & Humanities

Memory Books

Combine painting, illustrations, collage, and creative writing to explore your personal stories, memories, and culture. Develop book-binding skills as you design and build your own hand-made book. Your completed book is a wonderful way to share the wisdom and experiences of your life. The class will culminate with a student art exhibition where you will have the opportunity to share your art with family, friends, and classmates.

Grades: 3-5 or 6-8 Additional Materials Fee: \$50 (Room with a sink preferable)

The 'Not So Daily' Show

Bring current events to life for the stage. Combine acting, writing, comedy, and your interest in current events to create our own version of The Daily Show. Investigate current events using national and international media then interpret these events to create a live performance. You will have the opportunity to write, direct, or perform events as newscasters, readers, and/or reporters in this highly collaborative class.

Grades: 4-6 or 6-4 (Large movement space ideal)

Paint like a Master

Use a variety of artistic media such as watercolor, pencil, ink, and charcoal and apply fundamental techniques to create a finished work of art. You will be introduced to the work of various famous artists, explore their techniques and style and then create your own masterpiece.

Grades: 3-5 or 6-8 Additional Materials Fee: \$50 (Room with sink required)

Painting with Wax: Incredible Encaustics

No experience necessary for this quick-start wax painting class. Encaustic painting uses colored pigment suspended between layers of wax and resin. Use paints, collage, scraping, layering, incising, and textured finishes to make an original creation as a gift or to hang on your bedroom wall.

Grades: 6-8 Additional Materials Fee: \$125 (Room with a sink, no carpet, and multiple electric outlets required)

Playbuilding

Have you ever wondered about ways to create original plays from your own ideas and experience? How do script writers and playwrights capture an audience's attention and imagination with just dialogue? What makes a scene funny or dramatic? In Playbuilding we use prompts to uncover our ideas, engage in dialogue, experiment with stand-up improvisations, and refine and rehearse our work for an informal performance for friends and family. You will experience intense opportunities for individual creativity while building your skills in group cooperation and commitment.

Grades: 3-5 or 6-8 (Large space needed)

“What I liked best about Actor’s Studio is that I could see kids cooperating with each other. This class brings out the best in all of us.”

Nakyia, grade 5

Faubion Elementary School



Art & Humanities

Poetry Jam and Slam

Poetry is everywhere, in the music we listen to and even on our refrigerator doors. Learn about different types of poetry, both free verse and formally structured. Work individually and in groups to create explosively descriptive poems. Publish your poems in a small book and share them with the class in an informal ‘poetry slam’.

Grades: 3-5 or 6-8

Puppets from Around the World

Build some amazing, colorful puppets of your own design; create whatever kind of creature you desire out of reused materials. Choose from three styles of puppetry from around the world – a Japanese Bunraku, which ranges in size from two-and-a-half to four feet tall or more, a Chinese Rod puppet, made with true-to-life features and raised overhead at the top of a stick, or an Indonesian Shadow Puppet. Showcase your puppets in a final presentation on the last day of class.

Grades: 1-3, 4-6, 6-8 (Room with a sink required)

Shakespeare’s Comedies

“Brevity is the soul of wit” so let us be brief. In this class you will build poise and confidence in your presentation skills, while playing colorful characters from the Comedies of William Shakespeare. Drama games will keep you engaged and active as you improve your acting and literacy skills. The class culminates with an informal sharing for family and friends.

Grades: 6-8 (Room with movement space)

Speech Easy: The Art of Public Speaking

Become a fearless and effective public speaker. Learn the basics of public speaking including eye contact, speaking rate, volume, enunciation, oral fluency, vocal energy, and gestures. Learn how to prepare a speech and practice impromptu, expository, and persuasive speaking.

Grades: 4-6 or 6-8

Storytelling

Storytelling is one of the oldest art forms; while it is easy to tell a story, it takes skill to tell a story well. This class will teach beginner storytellers the basic public speaking skills needed to be an entertaining storyteller. You will learn how to create different voices for various characters, how to add gestures, facial expressions, and flow to your story. You will practice projecting your voice and using eye contact to keep your audience engaged. Together we will practice telling stories from a variety of genres from creation myths to personal narratives and present a final story to the class to record as a DVD and/or podcast.

Grades: 1-3, 4-6, 6-8

Wax Sculpture

Have you ever been to a wax museum and wondered, “Why wax?” Learn how to make your own life-like sculptures out of wax. Using beeswax, paints, pigments, heat, and a few tools, we will make small scale, realistic sculptures of people. Because wax is easy to use and inexpensive, it is a great way to work in three dimensions.

Grades: 6-8 Additional Materials Fee: \$50 (Room with a sink, no carpet, and multiple electric outlets required)

Wildlife Illustrations

Train your eye and hand to express yourself in simple but powerful ways. Using pencil, ink, charcoal and markers, create portraits of the animals of North America. Learn techniques for shading, contouring and perspective to help you create depth and proportion in your drawings. Step by step instruction, including animals in motion will be covered. You will choose from a variety of animals that are native to North America and learn about the habits and habitat of each species that you draw, from a spider to a large mammal.

Grades: 3-5 or 6-8 Additional Materials Fee: \$25 (Room with a sink)

World Dance

You’ve seen the dances on TV; now you can learn an array of popular dances from around the world. Dance like the stars with the Rumba, Cha-cha, Merengue & more. Discover how to move your body in new ways with a Cuban style Rumba, spirited Cha-cha, and maybe even the jivin’ Jive. Hear stories from each culture of dance origin and play an assortment of music from around the world. Learn an exciting routine of a variety of social dances that you can perform for your family and friends.

Grades: 1-3, 4-6, 6-8 (Large movement space required)



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