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A UNIQUE SUMMER ENRICHMENT PROGRAM FOR KIDS

AGES 9-14

JUNE 8 – JULY 17, 2020

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EXCEL FOR YOUTH is a unique academic enrichment program that offers students ages 9-14 classes in science, technology, engineering, math, visual art, drama, and writing. EXCEL celebrates its 38th year and has served over 26,000 students since 1982.

One-week, half day and all day classes take place on the campus of Sonoma State University and use the school's specialized arts, science, and technology labs, as well as providing guest speakers and field trips. Exceptional mentor teachers include university faculty, professionals from specialized fields, and teachers from area districts who design classes to capitalize on each student's interest, creativity, and curiosity.

FEES and DISCOUNTS:

Classes range from \$190-\$215 for a morning or afternoon one-week class, and \$380 for a one-week ALL day class. We offer discounts for families with more than one child enrolled in our program this summer. The discount is 5% off each child's registration fees.

EXCEL TENT LOCATION:

In the northwest corner of the SSU campus. Park in marked EXCEL parking spaces in Parking Lot A. Walk and sign in student at the tent located across from Rachel Carson Hall, Rooms 68 and 69. (see map on page 5)

DROP OFF and PICK UP:

Due to safety concerns ALL EXCEL students must be signed in and out at the EXCEL tent daily by either a parent or designated adult (special release forms available).

PARKING:

Parents will receive a 15-minute drop off and pick up parking pass for Parking Lot A on the first day of classes, which can also be used for Open Houses on Fridays.

REFUNDS:

A \$25 non-refundable processing fee is deducted for each class dropped up until 2 weeks prior to class start. NO refunds are given if canceling within 2 weeks of the first day of class.

LUNCH BUNCH:

As a service for EXCEL students, there will be lunch supervision provided at no charge from 12:15-1:00p.m. for those enrolled in both morning and afternoon classes.

At lunch time, students are required to check-in with the lunch supervisor first thing everyday. Students must stay within the Lunch Bunch area. Please have students bring a sack lunch and a snack from home. Students will not be permitted to leave the supervised area and buy food elsewhere on campus. Parents may take students away for lunch by signing out their child with the Lunch Bunch supervisor. Please feel free to send a game for students to share or a book to read.

FORMS:

Applicable forms must be completed and returned to EXCEL staff prior to or on the first day of classes. You can find the following forms online at sonoma.education/Excelforms:

- Code of Conduct
- Medical History
- Student Drop Off and Pick Up
- Internet Access
- Field Trip – One for each applicable class
- Special Release – Use only if child bikes, buses, or walks home or to an SSU office.

ABSENCES:

Parents must call the office before class begins if a student is going to be absent. The phone number is 707.664.2645 (voicemail available).

FIELD TRIPS:

Certain classes take trips off campus to enhance learning. Parents are needed to drive to these locations. Parent volunteer drivers can pick up a packet at the EXCEL tent. They will need to show license and proof of insurance.

T-SHIRTS:

Each EXCEL student will receive one t-shirt per summer.

OPEN HOUSES:

Some classes put on an open house the last half hour of the last class; drama class open houses are usually longer.

BEFORE AND AFTER CARE:

In partnership with SSU's Super Kids Camp, EXCEL does offer before and after care. Please check our website for details and fees.



REGISTRATION PROCESS: MAKE SURE TO CREATE A

HOUSEHOLD PROFILE

BEFORE REGISTERING

REGISTER @ WWW.SONOMA.EDU/EXED/EXCEL

SESSION 1 (JUNE 8-12)

MORNINGS 9:00AM-12:15PM

Crash and Burn Chemistry A.M. (ages 9-11)
Fore! Build a Mini Golf Course (ages 9-12)
Harry Potter: Performance Workshop (ages 9-12)
Kids Biz: Successful Business (ages 9-14)
Way with Words (ages 12-14)
Want to Fly? (ages 11-13)

AFTERNOONS 1:00-4:00PM

Acting Out! Improv (ages 10-14)
Crash and Burn Chemistry P.M. (ages 9-11)
Circuit Studio (ages 9-11)
Just Write! (ages 9-11)
Stage and Film Makeup (ages 12-14)
The Art of Arguing (ages 12-14)

SESSION 2 (JUNE 15-19)

MORNINGS 9:00AM-12:15PM

Hands On Archaeology (ages 11-14)
How to Write a Graphic Novel (ages 11-14)
Pre-Med for Kids (4-9)
Pottery Studio (ages 9-14)
What's Cooking? A.M. (ages 9-11)
Wood Shop for Kids A.M. (ages 9-11)

AFTERNOONS 1:00-4:00PM

Investing in Your Future (ages 11-14)
Metal Art: Rings and Things P.M. (ages 9-14)
Oceanology (ages 9-11)
Summer Clay Studio (ages 9-14)
What's Cooking? P.M. (ages 11-13)
Wood Shop for Kids P.M. (ages 10-13)

SESSION 3 (JUNE 22-26)

ALL DAY CLASSES 9:00AM-4:00PM

Dream Tree House Design (ages 10-13)
Hogwarts @ SSU (ages 9-13)



SESSION 4 (JULY 6-10)

MORNINGS 9:00AM-12:15PM

Coding Games with Scratch A.M. (ages 9-11)
Edible Science (ages 9-11)
Fashion Design A.M. (ages 9-11)
Graphic Design Boot Camp (ages 12-14)
Marine Biology (ages 11-14)
Podcasting (ages 12-14)

AFTERNOONS 1:00-4:00PM

Anime and Manga Workshop (ages 12-14)
Coding Games with Scratch P.M. (ages 9-11)
Crime Busters (ages 9-11)
Junior Diplomat: Model UN (ages 12-14)
Fashion Design P.M. (ages 12-14)
3-D Doodlers (ages 9-11)

SESSION 5 (JULY 13-17)

MORNINGS 9:00AM-12:15PM

Digital Photography (ages 11-14)
EV3 Lego Robotics (ages 9-12)
Fiber Arts: It's a String Thing! (ages 9-11)
Metal Art: Rings and Things A.M. (ages 9-14)
Printmaking (ages 10-14)
The Amazing Escape Room (ages 11-13)

AFTERNOONS 1:00-4:00PM

CSI: Sonoma (ages 12-14)
Extreme Planet! (ages 9-12)
Programming with Python (ages 11-14)
Theme Park Creators (ages 9-11)
3D Optical Illusion Art (ages 10-14)
Word Art: Calligraphy (ages 9-13)



Campus Map



For more detailed directions go to:
<http://web.sonoma.edu/exed/excel/campus-map>

REGISTER @ WWW.SONOMA.EDU/EXED/EXCEL

SESSION 1

June 8-12
9:00am-12:15pm

CRASH AND BURN CHEMISTRY A.M. (ages 9-11)

Did you know that everything on earth (and in the universe) is made up of chemicals? "Crash and Burn Chemistry" is an introduction to chemical reactions that form solids, change colors, smoke, bang, whiz, flash, and glow in the dark. Come and explore the nature and mystery of chemicals and how they affect us and our environment. Identify an unknown chemical spill. Build a smoking machine that actually shows what happens when a person smokes a cigarette. Carry out your own experiments to identify the nature of chemicals. Then take the experiments home to amuse and amaze your friends and family. Last, but not least, join us to uncover the secret of the "glow in the dark pickle."



JENNIFER ZACKS, B.A., in Environmental Studies, has taught full time for the Cotati - Rohnert Park Unified School District for the past eleven years.

June 8-12 | 9:00am - 12:15pm | #1004 | \$190

FORE! BUILD A MINI GOLF COURSE (ages 9-12)

Are you bored of seeing the usual mini golf courses and want to make something radical, new, and extraordinary? It all depends on your imagination! Transform recycled items into an amazing golf hole. Choose a theme, and then plan, design, and create your own golf hole with obstacles and decorative flair. On the last day you'll combine your work with other classmates to make unique, one of a kind golf courses for you and your families to try out, and then you can take your golf hole home with you to play or even add on to!

DEBORAH LIVINGSTON, earned her M.A. in Education from SSU with an emphasis in science notebooks. She has been an elementary school teacher for over 20 years. She has a great love for all things science and has a passion for hands-on activities that capture interest and promote learning.

June 8-12 | 9:00am - 12:15pm | #1003 | \$190

HARRY POTTER AT HOGWARTS: PERFORMANCE WORKSHOP

(ages 9-12)

Bring to life the wild and zany characters of J.K. Rowling's books about Harry Potter. Walk like Ron, talk like Hermione, moan like Myrtle and squeal like Peeves. Spend a week using theater games, improvisation and scripts to explore these rich and colorful characters from the Harry Potter stories. You may even choose to act out the roles of Professor McGonagall, master wizard Dumbledore or the huge lovable Hagrid, "keeper of the keys" at Hogwarts. Get on a Nimbus 2000 and hover over to Hogwarts' School for Witchcraft and Wizardry. Explore the dark side with the villainous Voldemort or Quirrell. Relatives and friends are welcome to watch our end of the week performance.

RAYMOND SKIPP, is a graduate of the Royal Academy of Dramatic Art in London, England. He currently teaches drama in many local schools. Besides performing in both film and television, he has an extensive Shakespearean background.

June 8-12 | 9:00am - 12:15pm | #1005 | \$190

SESSION 1

June 8-12
9:00am-12:15pm

KIDS BIZ: HOW TO CREATE A SUCCESSFUL BUSINESS (ages 9-14)

Bill Gates, Oprah Winfrey, and Mark Zuckerberg all started off as kids who were interested in being their own boss and seeing their creative ideas become a reality. Learn what you need to start a successful business. Work in collaborative teams to learn, step-by-step, how to create a business, using creative approaches to meeting customers' needs. Meet successful entrepreneurs who started their own businesses, and have an exclusive visit to a premier business start up in the North Bay. Discover many of the secrets to developing a business that is successful and ethical, and that provides customers with a good product or service at a fair price. Utilize your critical thinking skills and creativity as you explore the exciting world of entrepreneurship! *Parent drivers are needed for a field trip.*

MICHAEL FANNING, M.A., Ed.D, an experienced teacher and professor who uses engaging project based learning to teach students all subjects, including science and business. He shows students how they can apply their academic knowledge and skills as they prepare for rewarding and interesting careers.

June 8-12 | 9:00am - 12:15pm | #1006 | \$190

WANT TO FLY? (ages 11-13)

Did you know you can fly a plane before you can drive a car? Discover famous aviators like Amelia Earhart, Chuck Yeager (who broke the sound barrier), Astronauts

Sally Ride and Penngrove's own Lt. Col. Nicole Annapu

Mann. Learn what flying is all about – explore the milestones in aviation history, the science of how planes fly, and the different careers available in aviation.

Use electronic aids to create flight plans, navigate, check weather conditions, observe real time flights, and calculate aircraft performance. Learn about how airplanes are built, and try out actual airplane rivet tools on aircraft aluminum.

We'll even visit the Pacific Coast Air Museum (PCAM) and tour open cockpits of historic aircraft! **ART HAYSSEN**, is a 5-time NAFI Master Instructor, FAA FAAS Team Lead Representative in the North San Francisco Bay Area, ATP and active Flight Instructor since 1980. He has taught Aviation, Meteorology, and Geography at the Santa Rosa Junior College.

June 8-12 | 9:00am - 12:15pm | #1007 | \$215



WAY WITH WORDS: CREATIVE WRITING WORKSHOP (ages 12-14)

Do you like to make up stories or create compelling characters? Explore poetry, short stories, scripts, and many other types of writing through a variety of entertaining individual and group writing activities. Plot a story by creating believable characters, and then get them into (and out of) trouble. Write about the same incident from multiple points of view, and rewrite a fairy tale by changing the setting. Create a script with a partner by solving a problem entirely in dialog. Let your imagination soar and your pen go wild! At the end of the class you'll take home a collection of writing, as well as new ideas and techniques to keep you writing all year long. **LISA SHULMAN** is the author of several picture books and has written a middle school novel as well as dozens of children's books for the educational market. Her poetry, fiction and nonfiction for adults have appeared in various journals. Lisa teaches at

Apple Blossom School in Sebastopol. June 8-12 | 9:00am - 12:15pm | #1008 | \$190

SESSION 1

June 8-12
1:00-4:00pm

ACTING OUT! IMPROV STUDIO (ages 9-14)

In this fast-paced class, the focus is on improv using theater games similar to what you may have seen on *Whose Line Is It Anyway?* Discover the basics of staging, listening, giving focus, character development, space work, exploring genres, literature, some stage combat, dance, solo and ensemble work. With an arsenal of imaginative games and exercises, think quickly on your feet, build trust with your teammates and unleash your natural creativity and humor. Learn the dos and don'ts of improv, setting up a scene for your co-players, and using your "bag of tricks" while having loads of fun. We end the week with a comedy show for friends and family.

RAYMOND SKIPP (see bio on page 6) June 8-12 | 1:00-4:00pm | #1009 | \$190

CRASH AND BURN CHEMISTRY P.M. (ages 9-11)

Did you know that everything on earth (and in the universe) is made up of chemicals? "Crash and Burn Chemistry" is an introduction to chemical reactions that form solids, change colors, smoke, bang, whiz, flash, and glow in the dark. Come and explore the nature and mystery of chemicals and how they affect us and our environment. Identify an unknown chemical spill. Build a smoking machine that actually shows what happens when a person smokes a cigarette. Carry out your own experiments to identify the nature of chemicals. Then take the experiments home to amuse and amaze your friends and family. Last, but not least, join us to uncover the secret of the "glow in the dark pickle."

JENNIFER ZACKS (see bio on page 6) June 8-12 | 1:00-4:00pm | #1010 | \$190

CIRCUIT STUDIO (ages 9-11)

Play! Create! Invent! Interested in electronics and how they work? Spend a week discovering the many ways to experiment and engineer with electronic building blocks! Each color-coded littleBits® piece has a specific function (i.e. motion, lights, sound, sensors, internet connectivity), and all the Bits snap together with magnets to make larger circuits. Come build amazing things like a drawing bot, a chain reaction contraption, or an electronic throwing arm. Building circuits has never been so fun!

DEBORAH LIVINGSTON, (see bio on page 6)

June 8-12 | 1:00-4:00pm | #1011 | \$190



SESSION 1

June 8-12
1:00-4:00pm

JUST WRITE! CREATIVE WRITING FOR KIDS (ages 9-11)

Do you like to make up silly stories, create compelling characters, or play with poetry? Explore poetry, short stories, scripts, and many other types of writing through a variety of entertaining individual and group writing activities. Plot a story by creating believable characters, and then get them into (and out of) trouble. Write about the same incident from multiple points of view and rewrite a fairy tale by changing the setting. Create a script with a partner by solving a problem entirely in dialog. Write from the point of view of a shoe or a cell phone, and use sensory details to make a lie as believable as the truth. Let your imagination soar and your pen go wild! At the end of the class you'll take home a class collection of writing to read and enjoy.

LISA SHULMAN (see bio on page 7)

June 8-12 | 1:00-4:00pm | #1012 | \$190

STAGE AND MOVIE MAKEUP (ages 12-14)

From monsters to maidens and everything in-between, makeup is the face of every production. Learn the essentials, from basic tips for stage makeup to how to create scars, wounds, bruises, and a variety of other effects for the big screen. Discover how to use makeup to make an actor look like a completely different entity altogether, whether that means animals like cats and dogs, elderly people by using aging techniques, or aliens from another galaxy! Let your imagination take you for a ride as you learn the art of using stage and movie makeup to transform yourself and others.

ROSEANNE JOHNSON is a successful and experienced makeup artist, costumer, and hairstylist. From a young age, her love for theatre and her passion for artistic creation inspired her to become a part of this creative community. Roseanne's projects include productions with SSU, SRJC, and the 6th Street Playhouse, working on shows ranging from *Beauty and the Beast* to *A Christmas Carol* to *Rocky Horror*.

June 8-12 | 1:00-4:00pm | #1013 | \$215



THE ART OF ARGUING (ages 12-14)

"Why is homework necessary?" "Why do we have assigned seats?" "Why can't we talk?" "Why?" "Why?" "Why?" People are naturally inquisitive and sometimes quite spirited "know-it-alls." Use your natural talent of arguing and challenging authority to voice your opinions freely and dynamically. Debating enables you to express yourself, think strategically and persuade others. Great debaters select a topic and take a stand, research and gather facts, pick a moderator, ensure both sides take part, design opening and closing statements and reflect on what happened. Working cooperatively, brainstorm ideas and increase your understanding of other's views. Strengthen your self-confidence and prepare yourself for leadership in the real world.

BECKY YOUNG has worked in the educational field for over 10 years. She has a B.A. from SSU and a M.A. from Indiana University in Student Affairs and Higher Education. At SSU, she has taught courses for incoming freshmen. June 8-12 | 1:00-4:00pm | #1014 | \$190

SESSION 2

June 15-19
9:00am-12:15pm

HANDS-ON ARCHAEOLOGY (ages 11-14)

Our ancestors did not always write down their history, so archaeologists search for clues to learn more about how people once lived. Experience the excitement of discovery like a real archaeologist. Join a professional archaeologist to sift through the sands of time and get some hands-on experience with real archaeological tools and artifacts. Use shovels, trowels, screens, and brushes to explore the evidence of the past. *Participants must wear appropriate clothing for working outside, bring plenty of water, and be prepared to get dirty! Long pants and hats are a must and no open-toed shoes such as sandals or flip flops will be allowed while at the archaeological site.*

SAMANTHA DOLLINGER, M.A., is an Archaeologist at the Anthropological Studies Center at SSU where she manages a variety of field studies that document past land use and occupation. She also works in the lab at the ASC where she catalogs and analyzes Native American and mining artifacts. She received a B.A. in Anthropology and a B.A. in Journalism from San Diego State University. June 15-19 | 9:00am-12:15pm | #1015 | \$190

HOW TO WRITE A GRAPHIC NOVEL (ages 11-14)

Do you like reading graphic novels? Have you ever thought about writing your own? The modern graphic novel has come a long way since your grandfather's comic books! *How to Write a Graphic Novel* is a workshop designed to get you started on your own graphic novel. First, we'll examine Manga, comics, graphic novels, and picture books for examples of the many different ways to tell a story using illustration and words. Then, we'll go step-by-step through the process of scripting, storyboarding, pacing, and layout. And finally, you'll become the director, using cinematic and theatrical techniques to add emotion, drama and humor to your graphic masterpiece. *No drawing experience necessary!* **MARIE ZORN, B.A. in English**, teaches 7th grade English at Harvest Middle School in Napa. Marie is the liaison for the Napa Valley Unified ALPS/Gifted and Talented program. June 15-19 | 9:00am - 12:15pm | #1016 | \$190



POTTERY STUDIO (ages 9-14)

Have you ever wanted to create your own usable plates, vases, bowls, cups and more? Focus on mastering the four hand-building techniques for making your own unique earthenware. Pinch, coil, extrude, and slab build beautiful and creative pieces that can be used daily. Explore ways to decorate your pieces with texture, carving, and colorful underglazes and glazes. *Please bring a towel and your imagination. Due to time restraints, some pieces may not be fired by the end of class. Please plan to pick up additional pieces the following week.*

LAUREL BEGLEY is a professional ceramic artist and teacher who divides her time equally between teaching and making. She has taught children and adults at many clay studios and schools around Sonoma County, including the Sebastopol Center for the Arts. June 15-19 | 9:00am - 12:15pm | #1017 | \$215

SESSION 2

June 15-19
9:00am-12:15pm

PRE-MED FOR KIDS (ages 9-14)

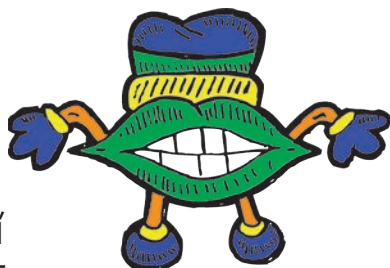
Would you like to be a doctor, nurse, dentist, veterinarian or physical therapist? If you have ever thought about a future career as a health professional, come discover what these careers are about and what it takes to prepare for them. In this exciting hands-on class, you'll study human anatomy, how to handle an emergency and witness a dissection. Activities include a physician-led tour of a health clinic, a fascinating behind-the-scenes visit at a hospital (including areas that are usually off-limits), interesting guest speakers who are health care practitioners, and engaging activities. *Parent drivers are needed for a field trip to Sutter Hospital - Santa Rosa.*

MICHAEL FANNING (see bio on page 7)

June 15-19 | 9:00am - 12:15pm | #1018 | \$190

WHAT'S COOKING? A.M. (ages 9-11)

Calling all aspiring chefs! Do you enjoy helping your family make dinner or baking brownies with your friends? Learn to make fun, tasty, and easy recipes. Along the way we will practice kitchen techniques, learn chef vocabulary, and explore tips and tricks that will bring your cooking and baking skills to the next level. Swap in some new ingredients, try out a new kitchen tool, and get creative. Put on that apron and join us for some cooking fun!



CHRIS LISTER has been a classroom teacher for fifteen years. He teaches middle school math, as well as a movie making elective where students learn the ins and outs of iMovie and other movie-making techniques. In college he discovered a love for cooking. Now, he enjoys looking for new recipes on the internet and having his family try them out. Chris wants to share that same love for cooking and inspire a new generation of confident cooks.

June 15-19 | 9:00am - 12:15pm | #1019 | \$215

WOOD SHOP FOR KIDS A.M. (ages 9-11)

Wham, bang, hammer and saw. Here's your chance to experience a real woodshop and discover skills that will last you a lifetime. Build great-looking projects out of wood that have real value. Use new wood, weathered wood, scrap wood, round and flat wood and transform it into a sturdy tool box, a charming bird house, and other things that will be used every day. Learn to safely operate a variety of hand tools including hammers, saws, screwdrivers, vices, planes, and drills, and observe a demonstration of the big power tools in the SSU Woodshop. Understand the creative process of construction as you design and plan your project, join the parts together, and then finish it. Walk away with some terrific projects and an "I can build it" attitude.

SEAN MARSHALL is a tinkerer and maker that is constantly exploring something new. A few personal projects have included: building, painting, sewing and wiring his own light-up cornhole set to building a drone with a nerf disk launcher. For the past 10 years, Sean has been working in the education field brightening classrooms with Woodworking, 3D printing, Laser Cutting, Soldering, Electronics, Robotics, Sewing, Coding, Live broadcasting, Prototyping, and Troubleshooting among many other Maker activities. He currently works at Sonoma Country Day School in Santa Rosa.

June 15-19 | 9:00am - 12:15pm | #1020 | \$215

SESSION 2

June 15-19
1:00-4:00pm

INVESTING IN YOUR FUTURE (ages 11-14)

Want to learn how to make your money grow and to finance all your future dreams? Investing is one way to achieve your aspirations. Learn how to invest money, understand the difference between stocks and bonds, the value of compound interest, and discover ways to invest your money to help it grow. Create a portfolio, including a variety of investments in both national and international companies. Find out what makes a stock a blue-chip stock and the different stock exchanges. Experience day trading and get answers to questions like "Is this a 'high risk' investment?" and "What's the difference between a stock and a mutual fund?" Come invest your time and put your dreams into action. *This course includes local guest speakers from various financial institutions.*

SHIRLEY JENNER, B.A., has taught for the Santa Rosa School District for over 20 years. She was a GATE teacher for many years as well as an Odyssey of the Mind coach.

June 15-19 | 1:00-4:00pm | #1021 | \$190

METAL ART: RINGS AND THINGS P.M. (ages 9-14)

Come discover the joy of forming flat pieces of metal into dimensional shapes and jewelry. Learn to use professional jeweler's tools, such as hammers for texturing, pliers for forming and files for smoothing. With copper, brass and stones as your medium, learn real metalsmithing techniques. Shape and finish metals into rings, pendants, and other jewelry, plus form items such as bowls or leaves. Cold connections like rivets and tabs will be used to join pieces, no soldering or power tools needed. Once your creations are finished, learn to add color with patinas and enamels as the final touch.

JUDY PAGNUSAT is a working jewelry artist who has been studying and teaching metal fabrication, enamels, fused glass and paper arts for many years. She loves sharing her passion to create all sorts of art and has created jewelry in many mediums.

June 15-19 | 1:00-4:00pm | #1022 | \$215

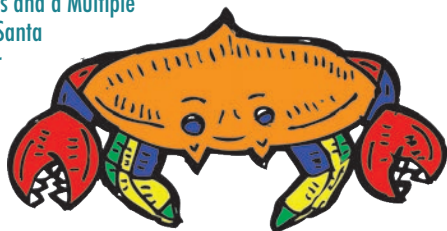
OCEANOLOGY (ages 9-11)

The power and wonder of the ocean is as strong today as ever, with new expeditions to its depths, and new discoveries beneath melting ice, and on shores around the world. Discover how an octopus eats with Jell-O "stomachs." Take a Virtual Reality tour of the world's largest coral reef, visible from outer space, and home to thousands of diverse lifeforms. Find out how underwater volcanoes formed and which creatures lurk in the inky depths of the deepest oceans. All this and more awaits you as you become a junior oceanologist!

ROBIN HORGAN has a B.A. in Multi-Cultural Studies and a Multiple

Subject teaching credential. She has been a teacher in Santa Rosa for 18 years. Robin has had a life-long passion for teaching, learning and travel. Her grandmother Edith inspired her love of books. Robin's favorite quote is: "When one tugs at a single thing in nature, he finds it attached to the rest of the world."

June 15-19 | 1:00-4:00pm | #1023 | \$190



SESSION 2

June 15-19
1:00-4:00pm

SUMMER CLAY STUDIO (ages 9-14)

Come explore the world of clay and spend a miraculous week rolling, pinching, pounding, and wedging clay into all sorts of shapes and forms. Explore a variety of hand building techniques and invent fanciful sculptural and functional pieces. Embellish the surface of your masterpieces with texture and special decorative stamps and perfect the techniques of glazing and underglazing. Be a part of a Raku firing at the end of the session. *Please bring an apron or old clothes and a towel or two for clean-up. Due to time restraints, some pieces will not be fired by the end of class. Please plan to pick up additional pieces the following week.*

LAUREL BEGLEY (see bio on page 10)

June 15-19 | 1:00-4:00pm | #1024 | \$215

WHAT'S COOKING? P.M. (ages 11-13)

Calling all aspiring chefs! Do you enjoy helping your family make dinner or baking brownies with your friends? Learn to make fun, tasty, and easy recipes. Along the way we will practice kitchen techniques, learn chef vocabulary, and explore tips and tricks that will bring your cooking and baking skills to the next level. Swap in some new ingredients, try out a new kitchen tool, and get creative. Put on that apron and join us for some cooking fun!

CHRIS LISTER (see bio on page 10)

June 15-19 | 1:00-4:00pm | #1025 | \$215

WOOD SHOP FOR KIDS P.M. (ages 10-13)

Wham, bang, hammer and saw. Here's your chance to experience a real woodshop and discover skills that will last you a lifetime. Build great-looking projects out of wood that have real value. Use new wood, weathered wood, scrap wood, round and flat wood and transform it into a sturdy tool box, a charming bird house, and other things that will be used every day. Learn to safely operate a variety of hand tools including hammers, saws, screwdrivers, vices, planes, and drills, and observe a demonstration of the big power tools in the SSU Woodshop. Understand the creative process of construction as you design and plan your project, join the parts together, and then finish it. Walk away with some terrific projects and an "I can build it" attitude.

SEAN MARSHALL (see bio on page 11)

June 15-19 | 1:00-4:00pm | #1026 | \$215



June 22-26
9:00am-4:00pm

DREAM TREE HOUSE DESIGN (ages 10-13)

Make your dreams a reality by exploring the architectural design process and designing your own dream tree house! Learn about the fundamentals of hand drawing, measurements, and the basics of design and space planning, and then use these skills to create plans and a model of your design. From your final design, you'll create drafting blue prints of your floor plan and specific design elements (doors, windows, etc.). You'll use colored pencils to make architectural renderings, and then show your house in 3D with isometric sketches and a foam core model perched in a tree (branch). You can even take it to the next level with interior furniture and built in designs, and use color swatches to decide on the exterior and interior colors. Your vision will be all ready to share with friends and family!

KATHRYN HENDERSON has been teaching youth art camps and classes in Sonoma County for the past 20 years. Drawing on her degree in design and fine art, she offers students a broad spectrum of the arts.

June 22-26 | 9:00am-4:00pm | #1028 | \$380



REGISTER @ WWW.SONOMA.EDU/EXED/EXCEL

SESSION 3

June 22-26
9:00am-4:00pm

HOGWARTS @ SSU (ages 9-13)

Hogwarts has a satellite campus at Sonoma State University this summer. Have you ever dreamed that you received a letter welcoming you to Hogwarts? All Harry Potter fans are invited to participate in a wonderful week of wizarding! Once arriving at SSU Hogwarts you will be sorted into houses and given your wizarding class schedule. You'll attend your Hogwarts classes every day, culminating at the end of the week with a Philosopher's Stone Treasure Hunt, Quidditch matches, and epic Trivia Contest.



Create and customize your own wand in Charms class! In Potions, concoct Essence of Nightshade and Felix Felicis. Discover your Patronus in Transfiguration, and learn how to duel in Defense Against the Dark Arts. In Care of Magical Creatures, study dragons and other mythical creatures. In Astronomy, make your own constellations based on the night sky at Hogwarts, read your tea leaves in Divination, and prepare your own Wizarding First Aid Kit that contains such items as Phoenix tears and Skele-Gro in Herbology. Also, don't be late to your introduction to flying class (on broomsticks) which is compulsory.

All week, you and your classmates will have many chances to earn points for your houses. In the end, who will win the House Cup?

Please note: This class will cover books one-four in the series. Clips from the first four films, as well as from documentaries and age-appropriate fan videos will be interspersed when applicable into the curriculum.

KELLY LISTER has been an elementary teacher and principal in Santa Rosa for 16 years. She has learned that kids who love reading, and who read a ton, are the most successful in school and beyond. Crafter, amateur musician, and avid reader, Kelly loves to get lost in the creative worlds of children's literature.

DEBORAH LIVINGSTON earned her M.A. in Education from SSU with an emphasis in science notebooks. She has been an elementary school teacher for over 20 years. She has a great love for all things science and has a passion for hands-on activities that capture interest and promote learning.

ANNE RYAN, is a high school teacher in San Francisco. She attended Dominican University of California and the University of San Francisco. Before she was a teacher, she worked for nonprofit community organizations doing communications and development. She enjoys traveling, cooking, learning new languages (human and computer), and talking like a pirate. One day soon, she hopes to buy a rescue puppy.

KRISTINE WARREN, B.A., has been a lover of books and the worlds they unfold since childhood. She helps students develop a love of learning with enthusiasm and excitement, whether it be discovering an exciting book, understanding a scientific idea, or delving deeper into new technologies. She has been an elementary school teacher for 9 years and currently teaches 5th grade in Santa Rosa.

June 22-26 | 9:00am-4:00pm | #1027 | \$380

SESSION 4

July 6-10
9:00am-12:15pm

CODING GAMES WITH SCRATCH A.M. (ages 9-11)

This multimedia adventure is the perfect course for aspiring coders. Create animated stories and games while learning programming concepts with Scratch. With this drag-and-drop platform developed by MIT, learn the essential building blocks behind object-oriented programming through creating fun, interactive stories, animations, and games. Include *Makey Makey* (an electronic invention kit) to your project to take it to the next level. Let your imagination run wild and think creatively, and learn to share your creations on the web. Take home a copy of your own game at the end of this class. It could be the start of something BIG!

KRISTINE WARREN (see bio on page 15)

July 6-10 | 9:00am-12:15pm | #1029 | \$190

EDIBLE SCIENCE (ages 9-11)

Do you realize that there is amazing science happening every day in your very own kitchen? Explore the chemistry behind cooking as you make butter, cause chemical reactions, and create yummy treats. Learn about candy making through experimentation with chocolate and sugar. Test to see if you are a supertaster and take the Juice-Tasting Challenge. Bring molecular gastronomy into the mix and you've got a recipe for fun. All of our experiments can easily be shared with family and friends, and taste testing is strongly encouraged. So, let's have some fun and play with our food while learning the science behind it!

DEBORAH LIVINGSTON (see bio on page 6)

July 6-10 | 9:00am-12:15pm | #1030 | \$190

FASHION DESIGN A.M. (ages 9-11)

Lights, music, runway, action! That's how we finish our week of creativity and fashion. Dive into the history of fashion from the 1920's to the present. Study designs classic to each decade and develop a strong foundation in a broad array of design options. Learn to sketch an outfit and then manifest your design in a final fashion show. Select fabric, cut, pin and sew (hand and machine) your very own creations. Collaborate with other students to create unique one-of-a-kind designs with fun accessories. Students contribute in many ways to the final "Show" as models, dressers, text writers, researchers, announcers, and coordinators.

KATHRYN HENDERSON (see bio on page 14)

July 6-10 | 9:00am-12:15pm | #1031 | \$190



SESSION 4

July 6-10
9:00am-12:15pm

GRAPHIC DESIGN BOOT CAMP (ages 12-14)

Welcome to the Adobe Creative Suite®, the premier software used worldwide by photographers, artists, and graphic designers. Explore the many and varied features of Adobe Photoshop® and Adobe Illustrator®. In Photoshop, discover how to make selections, fix and manipulate images and blend multiple images together using layers – then apply effects to your photos and text. In Illustrator, create and manipulate vector shapes, and combine simple shapes into more complex ones. Projects include designing and drawing your own character or logo. Take your creativity to the next level with cutting-edge technology.

HELEN BRADLEY is an artist and trainer who divides her time between the real and digital worlds, picking the best from both. Helen teaches Adobe Illustrator, Adobe Photoshop, Adobe Lightroom and digital photography both in person and online to students worldwide. She has written four books on photo crafts and she produces online training videos for graphic designers and photographers at Skillshare.com and for a number of blogs and other online sites.

July 6-10 | 9:00am-12:15pm | #1032 | \$190

MARINE BIOLOGY (ages 11-14)

Take an adventure into the deep blue sea! Discover the depths of the ocean right on the SSU campus by using virtual reality headsets, and see the ocean through the eyes of experienced scuba divers! Examine the internal and external anatomy of sea creatures including squid, sea cucumbers, sea stars, sea anemones, and much more. Use a microscope to observe some of the tiniest creatures in the ocean. Study the challenges of living in the marine environment, and learn the creative and often odd ways sea creatures feed, grow, and reproduce. Parent drivers are needed for a fieldtrip to Bodega Bay Marine Laboratory.

ALLIE NORTHEY, B.S., is a current biology graduate student and teaching associate at SSU, studying stress physiology of northern elephant seals. She received her Bachelor's in Biology from the University of Washington in Seattle and has worked with many marine mammals including sea otters, Hawaiian monk seals and endangered Southern Resident orca whales. Allie is very interested in the marine environment and is excited to share this passion with students.

JULY 6-10 | 9:00am-12:15pm | #1033 | \$190



PODCASTING (ages 12-14)

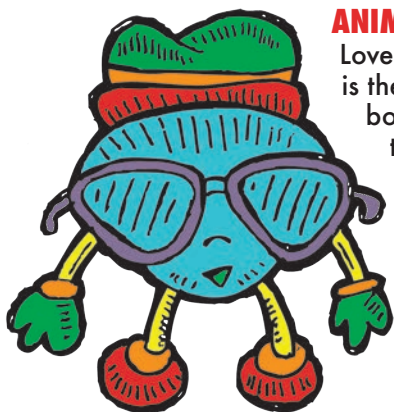
Become a Podcast Producer and start your storytelling journey! You'll create a list of episode topics, and learn how to record, edit, and produce your very own podcast! Using SoundTrap for Education®, you can break down your favorite TV show, tell jokes, explore what's next in space exploration, or interview your friends about what adults don't understand. You'll leave with some complete episodes, and the skills to keep producing your podcast for the rest of the summer and beyond!

ANNE RYAN (see bio on page 15)

July 6-10 | 9:00am-12:15pm | #1030 | \$190

SESSION 4

July 6-10
1:00-4:00pm



ANIME AND MANGA WORKSHOP (ages 12-14)

Love to draw? Love anime or manga? Then this is the class for you! Manga – Japanese comic book art – and Anime – Japanese animated television or movies – come in many different styles and genres. Create a Manga or Anime character based on your own ideas or on a pre-existing character while expanding on your drawing skills. Start with a pencil sketch and ink the outlines in before coloring with colored pencils, chalk pastels and markers.

BARBARA GOLDEN, born in Switzerland, has taught comics and cartooning for the past 15 years, in Germany as well as California. When her children were young, she created and published a cartoon series which reflected her life as a full-time mother and housewife. Barbara and her husband recently moved from the South Bay to Rohnert Park to be closer to their young grandchildren.

July 6-10 | 1:00-4:00pm | #1035 | \$190

CODING GAMES WITH SCRATCH P.M. (ages 9-11)

This multimedia adventure is the perfect course for aspiring coders. Create animated stories and games while learning programming concepts with Scratch. With this drag-and-drop platform developed by MIT, learn the essential building blocks behind object-oriented programming through creating fun, interactive stories, animations, and games. Include Makey Makey (an electronic invention kit) to your project to take it to the next level. Let your imagination run wild and think creatively, and learn to share your creations on the web. Take home a copy of your own game at the end of this class. It could be the start of something BIG!

KRISTINE WARREN (see bio on page 15)

July 6-10 | 1:00-4:00pm | #1036 | \$190

CRIME BUSTERS (ages 9-11)

A dastardly crime has been committed. Act as a real-life detective and distinguish truth from lie. A speck of dust, a strand of hair, trailing footprints, clues piling up, suspects are everywhere. Using a range of scientific techniques, unravel fact from fiction and determine who the true criminal is. Analyze handwriting, match fingerprints, test powders, examine fibers, and make molds of any footprints left behind. Increase your powers of observation and deduction by figuring out unsolvable thefts, arsons, mysteries and more. Think like an investigator and use the evidence to determine “Who done it?”

SHIRLEY JENNER (see bio on page 12)

July 6-10 | 1:00-4:00pm | #1037 | \$190

SESSION 4

July 6-10
1:00-4:00pm

FASHION DESIGN P.M. (ages 12-14)

Lights, music, runway, action! That's how we finish our week of creativity and fashion. Dive into the history of fashion from the 1920's to the present. Study designs classic to each decade and develop a strong foundation in a broad array of design options. Learn to sketch an outfit and then manifest your design in a final fashion show. Select fabric, cut, pin and sew (hand and machine) your very own creations. Collaborate with other students to create unique, one-of-a-kind designs with fun accessories. Students contribute in many ways to the final "Show" as models, dressers, text writers, researchers, announcers, and coordinators.

KATHRYN HENDERSON (see bio on page 14)

July 6-10 | 1:00-4:00pm | #1038 | \$190

JUNIOR DIPLOMAT: MODEL UNITED NATIONS (ages 12-14)

Young citizens of the world unite! As a delegate of one of the 193 countries in the *United Nations*, learn to research, negotiate, and debate your selected country's interests and risks on current world problems. Be part of either the General Assembly, the Security Council, or the international Court of Justice. Participate in mini-simulations, like a zombie pandemic, and review real-world recent case studies. Gain insights about the real workings of and issues before the United Nations and see how you can make a difference!

ANNE RYAN (see bio on page 15)

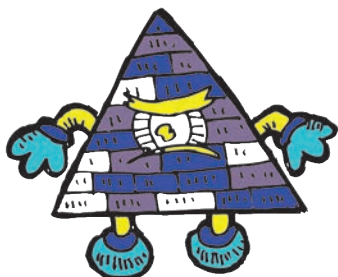
July 6-10 | 1:00-4:00pm | #1039 | \$190

3D DODDLERS (ages 9-11)

Are you an inspired young creator? Do you ever wish you could bring your ideas to life in 3D? Now you can! Using 3D printer pens, you'll design, explore, and make. We'll create fractal trees to learn patterns and symmetry, engineer a new design for a one-of-a-kind bubble wand, bring stars and constellations to life, and design a marble maze with diversions and other interactive maze challenges! The fun is limited only by your imagination.

DEBORAH LIVINGSTON (see bio on page 6)

July 6-10 | 1:00-4:00pm | #1040 | \$190



SESSION 5

July 13-17
9:00am-12:15pm

DIGITAL PHOTOGRAPHY (ages 11-14)

Learn to capture amazing images of the world around you! In this class you will learn to see what is around you – not just look at it. You will learn about light and shadow and how to use them to make better photos, and how your choice of camera settings like ISO, aperture, and shutter speed can be used to create interesting effects and to capture depth, fast moving subjects, and more. You'll also learn the basics of composition—the secret to better photos. Each day you'll have a new photo challenge to capture an image of a particular type, such as a portrait, landscape, botanical, creative etc. You'll analyze your images to determine the best shots, and then process them using Adobe Lightroom® and Photoshop®. By the end of the week you will have a deeper understanding of your camera and how to craft captivating images, and a small portfolio of your best photos. *We will be shooting on the first day, so be sure to bring your digital camera with batteries charged (a DSLR with interchangeable lenses is preferred), your camera's charger, memory cards, a USB cable that connects your camera to the computer (or a USB card reader), your camera's User Manual (hard copy or pdf), and 1-2 flash drives (min. 64GB each) for storing your images.*

HELEN BRADLEY (see bio on page 17)

July 13-17 | 9:00am-12:15pm | #1041 | \$190

EV3 LEGO ROBOTICS (ages 9-12)

Welcome to the world of robotics! Learn to incorporate motors, sensors, and the LEGO Mindstorms EV3 brick to build and design robots that can walk, talk, think, and do anything you can imagine. Using the EV3 programming platform, you will program your robot to navigate multiple challenges to complete tasks. Compete in the Ramping Up Challenge and program a robot to navigate a maze which is similar to real-world engineering design projects, such as controlling a Mars Rover to explore the planet surface.

JUSTIN KORNFEN has a B.A. from UC Berkeley and is a credentialed teacher of twenty plus years with elementary through high school age students. He currently teaches 7th and 8th graders at Rincon Valley Charter School in Santa Rosa and supervises their Robotics team. In addition to robotics and engineering, Justin enjoys teaching digital photography, animation, and video production.

July 13-17 | 9:00am-12:15pm | #1042 | \$190

FIBER ARTS: IT'S A STRING THING (ages 9-11)

Are you intrigued by yarn? How it looks, feels, even...smells? Do you have a deep desire to get creative and make something special? Then this is the course for you! We will explore knitting, crochet, needle felting, weaving, and pom-pom making. As makers, we will consider both beauty and function. Everything we make will be wearable. And of course, we will learn important crafter terminology: *K1*, *P2*, *warp*, *weft*, *ch*, *sc*, *roving*...so you can read simple patterns and continue making independently. Come make with us!

KELLY LISTER (see bio on page 15)

July 13-17 | 9:00am-12:15pm | #1043 | \$190

SESSION 5

July 13-17
9:00am-12:15pm

METAL ART: RINGS AND THINGS A.M. (ages 9-14)

Come discover the joy of forming flat pieces of metal into dimensional shapes and jewelry. Learn to use professional jeweler's tools, such as hammers for texturing, pliers for forming and files for smoothing. With copper, brass and stones as your medium, learn real metalsmithing techniques. Shape and finish metals into rings, pendants, and other jewelry, plus form items such as bowls or leaves. Cold connections like rivets and tabs will be used to join pieces, no soldering or power tools needed. Once your creations are finished, learn to add color with patinas and enamels as the final touch.

JUDY PAGNUSAT (see bio on page 12) July 13-17 | 9:00am-12:15pm | #1044 | \$215

PRINTMAKING: PAINT IT, PRESS IT, PRINT IT (ages 10-14)

Join us for a packed week of exploring different ways to transfer images. We will paint, color blend, image transfer, collage and more! Using the mono-printing process, explore abstract art, portraits, and landscape painting. Capture amazing images from nature and found objects and print on paper and clothing. Come print with us!

SANDRA NOVIA, is a professional artist and art instructor. She teaches in both the private and public sectors and has dedicated over two decades to ensuring that children have an enriched education in the arts. She is a co-founder of Studio Project, a year-round alternative arts program of unique and innovative art instruction.

July 13-17 | 9:00am-12:15pm | #1045 | \$190

THE AMAZING ESCAPE ROOM (ages 11-13)

Break out of an EXCEL-designed maze/escape room, then use what you learn to create your own. Investigate an array of puzzle types and discover the intricate systems for puzzle flow. Experiment with padlocks, simple circuitry, magnets, black lights, invisible ink, codes and ciphers as you design the mechanisms and of your room. Work with a team of fellow designers to develop clues, interactive objects, and challenges that lead players to a logical solution. At Friday's Open House after plenty of testing, invite your family and friends to puzzle their way out of your escape room creation. *Parent drivers are needed for a field trip to a local escape room.*

KRISTINE WARREN (see bio on page 15) July 13-17 | 9:00am-12:15pm | #1046 | \$215



SESSION 5

July 13-17
1:00-4:00pm



CSI: SONOMA (ages 12-14)

When bones turn up, who are you going to call? CSI SONOMA! Learn about the human skeleton and how to implement forensic methods to help identify missing persons from skeletonized remains. Working in teams, gather evidence and take it back to the lab to create a crime scene profile and help make a positive I.D. of the deceased individual. We will only use plastic cast bones and no graphic photos of crime scenes will be shown. However, we will discuss potentially disturbing issues such as homicide and the human decomposition process.

WHITNEY McCLELLAN, M.A., is currently completing her teaching credential and is a student science teacher in Novato. She was an archaeological specialist at the Anthropological Studies Center (ASC) at SSU. Whitney frequently gives lectures about human osteology and zooarchaeology to graduate and undergraduate level classes at SSU. July 13-17 | 1:00-4:00pm | #1047 | \$190

EXTREME PLANET! (ages 9-12)

Living on Planet Earth means living with extreme forces of nature like volcanic eruption, earthquakes, and tornados. Explore natural disasters, build models and create small-scale natural disasters. Simulate a thunderstorm, replicate the forces of volcanoes exploding, make a mini-mudflow and reproduce a tsunami. Learn where different disasters occur on Earth and how to be prepared to survive them. Participate in hands-on science experiments, observe natural events via Virtual Reality, and investigate evidence of natural disasters to explore the science behind the disasters that make Earth an extreme planet!

MAGGIE PETERS has over 15 years of experience teaching elementary students. She received her B.A. and teaching credential from Sonoma State. She is currently a 4th-grade teacher with the Rincon Valley Union School District, and when she isn't teaching students she can be found at the soccer fields with her children, reading, or learning ways to excite children to learn.

July 13-17 | 1:00-4:00pm | #1048 | \$190

PROGRAMMING WITH PYTHON® (ages 11-14)

Code and create your own computer game with Python®. Learn how to make computer games using the popular Python programming language—even if you've never programmed before! Begin by learning basic programming concepts and use these skills to build classic games like Hangman or Tic-Tac-Toe, and then work your way up to more advanced games, like a text-based treasure hunting game or an animated collision-dodging game. Along the way, you'll learn key programming and math concepts that will help you take your programming to the next level.

GEETA MENON, M.S., in Computer Science and B.S., in Mathematics and Computer Science has many years of programming and teaching experience in various schools, colleges and universities. She currently works as an information technology analyst/programmer at the School of Extended and International Education (SEIE) at SSU. July 13-17 | 1:00-4:00pm | #1050 | \$190

SESSION 5

July 13-17
1:00-4:00pm

THEME PARK CREATORS (ages 9-11)

Have you ever wondered how *theme parks* come to life? Go behind the scenes with Disney Imagineers ([online](#)) and complete project-based exercises to design a theme park of your very own. Explore how storytelling and theme impact every decision made in the design of a land and how they engage all senses. At the end of the week take home a mock-up of your themed world with character sheet and even a costume prototype. What world do you imagine?

KRISTINE WARREN (see bio on page 15)

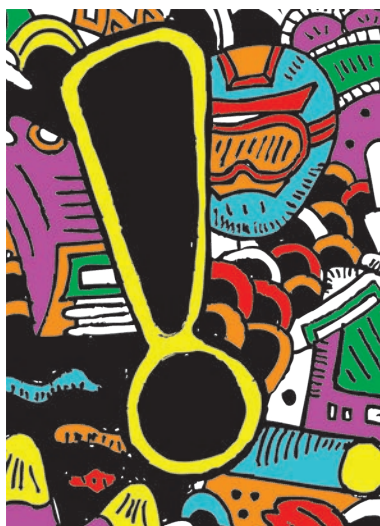
July 13-17 | 1:00-4:00pm | #1051 | \$190

WORD ART: LETTERING AND MODERN CALLIGRAPHY (ages 9-13)

You see it everywhere – on invitations, wall art, chalkboards, even on the signs in your favorite stores. Calligraphy makes ordinary words distinctive and special! Explore the characteristics of creative lettering and the proper techniques for using modern calligraphy tools and supplies. Learn step-by-step directions for writing each decorative letter, and how to change elements of your writing to create new styles. Create unique wall art and stationary, and have fun discovering how to write in more creative, whimsical styles!

SANDRA NOVIA (see bio on page 21)

July 13-17 | 1:00-4:00pm | #1052 | \$190



3D OPTICAL ILLUSION ART (ages 10-14)

Are you an artist who wants to evolve your art to a higher level and make it pop off the paper or out of the ground? Learn how to make an object, creature, or island hover above your sketch paper. Let's create skyscrapers that grow out of your page, or a deep canyon that you can look down into. Besides illusion art on paper, you'll paint a large illusion street art piece outside on the ground with professional chalk pastels, and take 3D optical illusion photos of your finished work to take home and share with friends and family.

BARBARA GOLDEN (see bio on page 18)

July 13-17 | 1:00-4:00pm | #1049 | \$190



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